

### MONTHLY MICROCLIMATIC SUMMARY

MARCH 1967

### ENVIRONMENTAL DATA BASE FOR REGIONAL STUDIES IN THE HUMID TROPICS

USATECOM Project No. 9-4-0013-01

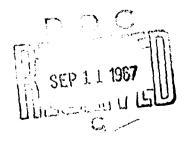
US ARMY
TROPIC TEST CENTER
Fort Clayton, Canal Zone

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### ENVIRONMENTAL DATA BASE FOR REGIONAL STUDIES IN THE HUMID TROPICS

### MONTHLY MICROCLIMATIC SUMMARY

MARCH 1967

### Prepared by

Michael A. Fradel, Project Officer and Dr. Wilfried H. Portig, Meteorologist USATECOM Project No. 9-1:-0013-01

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### Conducted by

US Army
Tropic Test Center
Fort Clayton, Canal Zone
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Minimum Temperature (Fort Kobbe satellite)

Maximum Relative Humidity (Fort Kobbe satellite)

Minimum Relative Humidity (Fort Kobbe satellite)

Precipitation (Fort Kobbe satellite)

Maximum Temperature (Fort Sherman satellite)

Minimum Temperature (Fort Sherman satellite)

Maximum Relative Humidity (Fort Sherman satellite)

Precipitation (Fort Sherman satellite)

### MONTHLY MICROCLIMATIC SUMMARY

### Introduction

Monthly microclimatic data summarized in this series of reports were collected by the US Army Tropic Test Center and the Weather Engineers of Panama Corporation under the project, Environmental Data Base for Regional Studies in the Humid Tropics. The project is sponsored by the Advanced Research Projects Agency of the Department of Defense and by the Army Research Office, Office of the Chief of Research and Development. It is an investigation of microclimatic, air chemistry, vegetation, soils, microbiological, and macrofaunal conditions at selected sites in the principal tropical environments of the Panama Canal Zone and the Rio Hato Military Reservation. The objective of the project is to assemble quantitative environmental data for RDT&E purposes.

Sites. Data summarized in this report were collected at the Albrook Forest and Chiva Chiva sites. Figure 1 shows the site locations within the Isthmus of Panama. Geographic coordinates are shown below:

Albrook Forest	09° 01'N, 79° 33'W
Chiva Chiva	09° 01'N, 79° 35'W
Fort Kobbe (satellite)	08° 54'N, 79° 34'W
Fort Sherman (satellite)	09° 16'N, 79° 59'W
Albrook (satellite)	09 00'N, 79° 33'W

The Chiva Chiva open site and the Albrook Forest site are paired for comparative study of environmental conditions in a tropical semideciduous forest and in a large clearing. Both are located in a region where the annual precipitation is approximately 80 inches and there is a pronounced dry season. The other satellite sites were located primarily for soil studies purposes. Albrook and Fort Kobbe have climatic regimes similar to the principal sites.

The Altrook and Chiva Chiva main sites are approximately four kilometers apart. Each has a 46-meter walk-up tower and an air-conditioned building to house the recording equipment and observers. Both sites are approximately 30 meters above sea level. The top of the forest canopy at the Albrook site is about 26.5 meters above the ground.

Instrumentation. A wide range of climatic elements are measured at the Albrook and Chiva Chiva sites. Types of observations and frequencies are shown on Figure 2. The towers at the Albrook and Chiva Chiva sites are similarly oriented. Sensing equipment is mounted at several levels on the towers to provide measurements through the vertical profile. Additional instruments are emplaced in the immediate vicinity on or near the ground.

All instrument exposures are duplicated at each site. Figures 5, 4, and 5 show the instrument array at there sites.

Data Reduction and Storage. All data, as applicable, are recorded at or reduced to each full hour and transposed to punch cards. These runch cards, together with all raw data, are stored in the Tropic Test Center Technical Library Annex.

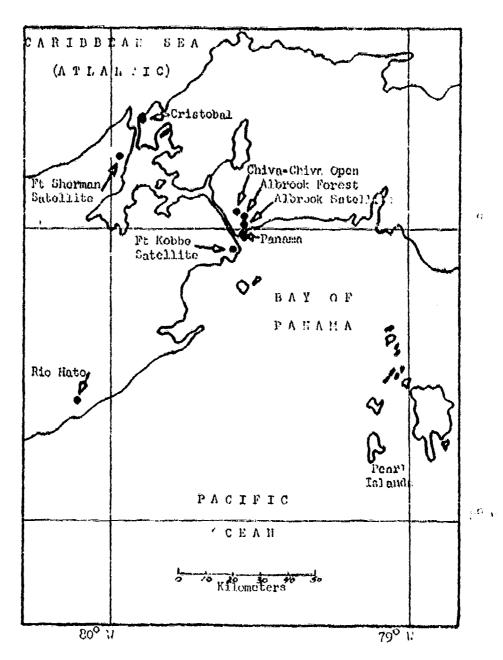


FIGURE 1.

LOCATION MAP, ISTIBUS OF PAPACA

FIGHE 2. FABQUERCY OF OBSERVATIONS

	16.0 Frequency	Hourly#/Continuously Hourly#/Continuously Once Daily	Hourly (3600-1900 EST)	Hourly*/Continuously	Continuously	Once Daily	Continuously b Three Daily t Three Deily	Continuously Fourly**/Continuously
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	Temperature:	Dry Bulb Wet Bulb Gress Minimum	HBGT Trdes:	Relative immidity	Barometric Pressure	<b>Evaporation</b>	Precipitation: Recording Cage Manual Gage Ston Flow	Mind: Direction Speed

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\* Obscarvation mede with sling psychrototor when recorders are imperative.

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" Instrument descriptions are contained in the Invironmental Bata Rasa semiannal reports.

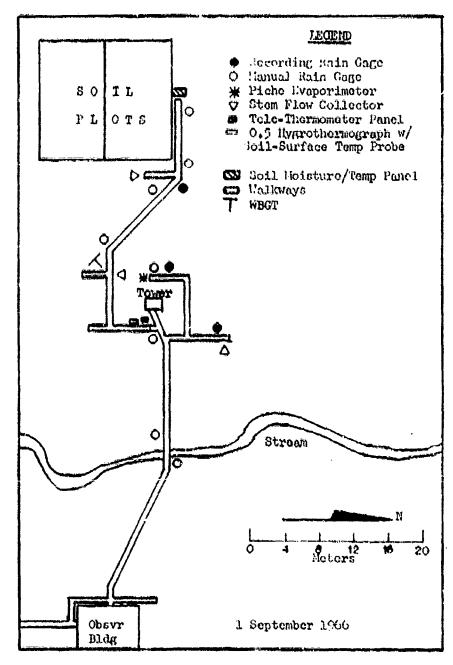


FIGURE 3.
ALBROOK FOREST SITE, GENERALIZED PLOT

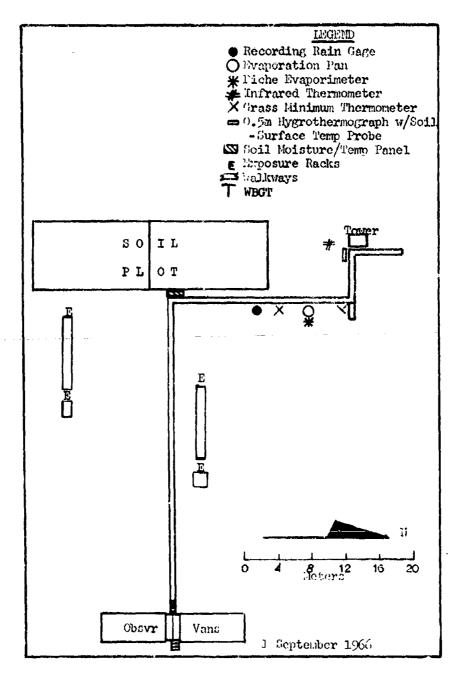


FIGURE 4.
CHIVA CHIVA OPEH, CEMERALIZED PLOT

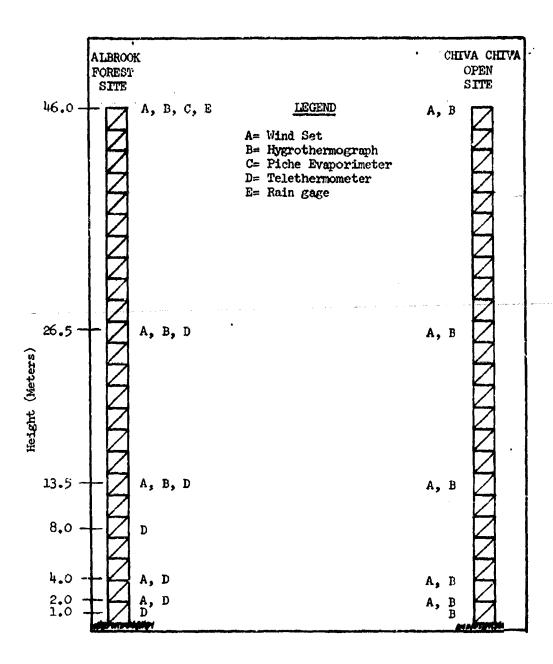


FIGURE 5.

INSTRUMENT LOCATION ON TOWERS

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### SUMMARY OF METEOROLOGICAL OBSERVATIONS HOURLY DATA

MARCH 1967

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		22	75.3	74.9	74.8	74.1	73.6	73.1	73.1	73.5	73.9	
		21	75.8	75.5	75.2	74.8	74.6	74.0	73.9	74.4	74.8	-
		20	76.7	76.3	76.1	75.6	75.5	75.0	74.8	75.6	75.9	•
		2	17.8	77.5	77.3	77.0	77.1	76.5	76.5	76.9	77.5	_
		18	79.9	80.3	80.1	79.4	79-7	79.3	79.2	79.€		
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73.4	- <b>£</b> -	73.2	72.5	-#-	72.6	72.5	72.7	72.2
75.8	ds ie	75.9	75.7	is lev	77.9	78.3	79.8	79.4
79.6	el wa	79.8	79.9	el wa	81.8	82.4	83.9	84.7
81.9	s not 1	82.0	82.4	s not	84.1	84.7	87.0	87.8
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SUMMARY OF METEOROLOGICAL OBSERVATIONS

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HOURLY DATA

MARCH 1967

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		20	7.8	4.7	3.1	4.9	5.7	6.9	7.2	80	8.6 5.9
	-	18   19	7.7 4.1	7.7 7.2	.6 6.1	6.4 7.0	6.7 7.0	7.7 7.3	8.0 7.3	9.1 8.2	8.9 7.6
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28.53					-		Ħ	is lev	el was	not in	Strumer	ited fo	r air t	This level was not instrumented for air temperature at this time	ure at 1	his th	<b>4</b>								
26.5m	4.7	S. 3.	6.4	6.2	5.7	6.1	6.8	6.5	5.6	5.7	6.5 5.6 5.7 5.1 9.9		 ••	9.4 3.5 10.6 7.1 6.7 5.9	6.7	. e. 7	α, Ψ	*	4. 9	4.4 4.8 3.8 2.9 3.3	2.9	3.3	4.7		
3.5 E	7	7.1	7.1 7.0 6.6	9.9	6.6 8.1	8.1	8.2	8.7	4.7	5.7	5.1 10	6 5	.4 10	4.7 5.7 5.1 10.5 9.4 10.1 11.9 7.3 6.0 6.5 4.6 3.8 3.6 4.4	9 7.5	- 6.0		4	8	3.6	4.	4.0	9.9		~~_
E C &			-	-	_		뒾	is leve	al was	not in	strumen	ted for	: air te	This level was not instrumented for air temperature at this time	IT SE E	his tic	<u>-</u>			-					
6 0.4 E	9.	9.5	8.	7.6	8.4	6. 6	6.9	4,3	6.5 5.1		5.6 11	.3 10	<u>ت</u> ن	5.6 11.3 10.9 11.2 9.1 8.7 6.2 5.6 4.3 3.3 3.3 6.1 7.0	1 8.7	. 6.2	5.6	4	<u>ب</u>	3.3	6.1	7.0	4		<del></del> -
2.0 m		6.7	8.2	8°3	8.0 10.6	9.01	10.1	5.6	6,3	5.0	7.1 11	.9	3	7.1 11.9 11.4 10.9 9.3 8.6 6.4 5.6	3.8			4.7	. 2	4.7 2.5 3.2 6.2	6.2	7.1	ф ф		
n 0.1	89 80	8	8.4	8.1	8.1 12.7	12.7	10.2	7.5	7.6 9.0 12.2	0.0	2.2 15	.0 14	. 5 (12	15.0 14.5 12.0 11.3 10.4 7.4 6.0 5.0 2.9 3.6 4.9 6.9	3 10-4	7.4		 S.0	2	3.6	4.	6.9	8.0		
0.5 H	7.9 8.1		6.7 5.3		6.5 8.5	.s.	8.3	5.8	5.6	7.7 1	1.8 15	- 6	-0.	5.6 7.7 11.8 15.9 14.0 14.3 13.6 7.4 6.8 5.1	7.4	9		6	~	200	7	0	í		

्निक्षित्र हैं। हिन्ने - क्रान्त्रीकार कि एक्षिक्षीत्रक अधिकार्कानक

## SUMMARY OF METEOROLOGICAL OBSERVATIONS HOURLY DATA MARCH 1967

_	-	٠									-
	ķ	Me	63		6	3		9	9	ä	0.69
	Summa	Mea	72.0		7	75.0		78.0	9	20	0-52
	Monthly Summary	Min	40.0		43 0 73 0 63 0	42.0		37.0	30.6	0 87	42.0
	Mor	ops. Min. Mean Max.	744		747	741		738	738	742	744
		24	82.0		33.9	9.5		0.0	0.0	0.0	0.0
		23	32.0		3.0	0.0		9.6	0.0	0.0	0.6
		22	0.0		0.2	90,		0.	6.0	7.0	0.0
		21	9.0		1.0	2.0		-6.0	8	8	
		20 21 22 23 24	0 81.0 69.0 62.0 56.0 54.0 54.0 56.0 58.0 59.0 66.0 72.0 75.0 78.0 80.0 82.0 744 40.0 77.0 191.0	• •	0 80.0 68.0 61.0 56.0 55.0 55.0 56.0 57.0 59.0 60.0 67.0 75.0 79.0 81.0 82.0 83.0 83.3 742	0 86.0 73.0 63.0 38.0 55.0 56.0 58.0 60.9 60.0 61.0 65.0 73.0 75.0 82.0 84.0 86.0 85.0 741 42.0 75.0 94.0		85.0 72.0 63.0 58.0 55.0 58.0 60.0 62.0 62.9 64.0 70.0 77.0 82.0 65.0 88.0 89.0 93.0 738 37.9 78 0 100 n	0 88.0 73.0 65.0 59.0 56.0 59.0 60.0 62.0 64.0 55.0 72.0 78.0 83.0 86.0 88.0 90.0 91.0 738 39 6 75 6 160 0	58.0 59.0 61.0 62.0 64.0 66.0 72.0 78.0 81.0 84.0 87.0 89.0 90.0 742 43 0 75 0 98 0	90.0 79.0 69.0 61.0 59.0 60.0 62.0 64.0 66.0 71.0 77.0 81.0 84.0 86.0 89.0 90.0 744 42.0 75.0 59.0
	-	19	2.0 7		5.0	3.0 7		7.0	9.0	8.0	0.
		188	6.0 7		7.0 17	5.0 7	·	0.0	2.0	2.0 7	
ogr.		08 09 10 11 12 13 14 15 16 17 18 19	9.0	this level was not instrumented for relative humidity at this time	0.0	1.0 6	This level was not instrumented for relative humidity at this time	<del>2.0</del>	5.0-	5.0 77	
H G	-	91	. O.8	at is	9.0.6	9-0-0	<del>-</del> 5	6:	0	· 6	<u> </u>
dgi		<u>د</u>	- <u>s</u>	Medity	- 5	9	nidery T	.0 62	<u> 2</u>	.0 64	0 64
e Hun			. 0 .	ve Im	0 57	09.0	re hur	0 62	0 62.	0 62.	0 62.
elativ	٦		 	elari	- Se	58.	elaciv	- 60	60.	- 19	. 60
-   &	%	=	54.	d for 1	55.	56.0	for	- 58	59.0	59.0	59.0
Means		12	54.0	- hente	55.0	55.0	tente	55.0	56.0	58.0	59.0
Monthly Means of Relative Humidizy by Hour	ļ	=	56.0	instru	56.0	58.0	Instru	58.0	89.0	68.0 60.0	61.0
No.		02	62.0	s not	61.0	63.0	s not 1	63.0	65.0	68.0	0.69
		60	69.0	vel wa	68.0	73.0	el wa	72.0	73.0	77.0	79.0
		80	81.0	his le	80.0	86.0	el Si	0.28	0.88	91.0	0.06
	ı	02	85.0	- <del></del>	63.0	90.0	Ė	•	С.	94.0	0
		90	86.0	-	84.0	90.0		94.0	95.0	0.55	0.5
		03 04 05	85.0		84.0	0.68		64.0	94.0	94.0	0.46
		50	85.0		. S. S.	0.68		33.0	0.46	3.0	2.0
		63	85.0		94.0	88.0	• • •	93.0	3.0	2.0	3.0
			94.0		94.0	0.8		2.0	3.0 5	2.0 5	0.5
	;	0: 1 62	83.0 84.0 85.0 85.0 85.0 86.0 85.		34.0	<del></del>		2.0 5	2.0 9	2. 0 · 1	9.0.1
e.	1	15 24	46.0m	28.5m	6.5m 84.0 84.0 84.0 84.0 84.0 84.0 83.	3.5m 88.0 88.0 88.0 89.0 89.0 50.0 90.	8.0 m	4.0m 92.0 92.0 93.0 93.0 54.0 94.0 93.	2.0m 52.0 93.0 53.0 94.0 94.0 95.0 94.0	1.0m 91.0 92.0 92.0 93.0 94.0 94.0 94.0	0.5m 91.0 92.0 53.0 92.0 94.0 94.0 93.
Sposure	2112	н	4	38	<u> </u>					<u>-:</u>	<u>.</u>
	ن ا				(011	s 150	10(1)	KOOK	ιτν		

81.0 82.0 744 43.0 70.0 83.0		80.0 80.6 741 40.0 59.0 81.0	80.0 80.0 744 39.0 55.0 86.6		82.0 84.0 743 35.0 71.0 100.0	83.0 84.0 742 35.0 71.0 98.0	83.0 83.0 744 35.0 70.0 84.0	85.0 86.0 744 34.0 71.0 98.0
70.0 62.0 57.0 54.0 .3.0 53.0 55.0 56.0 58.0 64.8 69.0 75.0 78.0 80.0 81.0 82.0 744 43.0 70.0 83.0	letive humidity at this time	60.0 56.0 52.0 52.0 52.0 54.0 55.0 58.0 64.0 70.0 75.0 78.0 80.0 80.0 80.0 741	76.0 68.0 60.0 55.6 52.0 51.0 52.0 53.0 52.0 58.0 63.0 70.0 75.0 79.0 80.0 80.0 80.0 744 39.0 59.0 86.0	lative humidity at this ume	49.0 50.0 52.0 53.0 57.0 63.0 70.0 75.0 78.0 81.0 82.0 84.0 743 35.0 71.0 100.0	50.0 51.0 52.0 54.0 58.0 64.0 71.0 75.0 79.0 81.0 83.0 84.0 742	46.0 57.0 52.0 49.0 48.0 48.0 51.0 51.0 56.0 64.0 71.0 77.0 81.0 63.0 83.0 83.0 744 35.0 70.0 84.0	01.0 54.0 49.0 46.0 46.0 50.0 52.0 53.0 58.0 65.0 73.0 78.0 81.0 93.0 85.0 86.0 744 34.0 71.0 98.0
.0 83.0 83.0 79.0 70.0 62.0 57.0 54.0 .3.0	This level was not instrumented for relative humidity at this time	81.0 77.0 58.0	81.0	This level was not instrumented for relative humidity at this time	88.0 75.0 64.0 57.0 52.0 49.0	89.0 75.0 64.0 57.0 52.0 50.0	84.0 75.0	89.0 73.0
40.0 m 82.0 82.0 82.0 83.0 83.0 83.0 79.0	28.5m	26.5m 60.0 81.0 80.0 81.0 81.0 81.0	3.5m 80.0 81.0 80.0 81.0 81.0 81.0	8.0 m	4.0 m 84.0 86.0 87.0 88.0 85.0 90.0	2.0 m 85.0 87.0 87.0 89.0 90.0 91.0	.7m 84.0 84.0 83.0 84.0 84.0 84.6	0.5m 86.0 87.0 88.0 88.0 89.0 90.0
Ÿ.			iodO)			CILLY		0

## SUMMARY OF METEOROLOGICAL OBSERVATIONS

HOURLY DATA

naery *	H						<b></b>				-
Monthly Summery *					-	، بدادی		·		PM nestin	1
	24	9.0		5.0	12.0		21.0	20.0	16.0	15.0	
	23	9.0 13.0		9.0	11.0		19.0	20.0	13.0	13.0	
	22			7.0	10.0		19.0	20.0	16.0	16.0	1
	21	10.01		7.0 7.0	12.0		19.0	20.0	14.0	20.0	-
	20	12.0		11.0	20.0		23.0	23.0	19.0	21.0	
	13	19.0		20.0	32.0		23.0	30.0	23.0	29.0	1
	81	0 13.0 21.0 18.0 18.0 24.0 28.0 38.0 44.0 34.0 40.0 34.0 19.0 12.0 10.0		0 12.0 14.0 16.0 15.0 26.9 25.0 50.0 50.0 33.0 36.6 37.9 20.0 11.0	0 13.0 23.0 20.0 19.0 25.0 25.0 49.0 49.0 39.0 40.0 41.0 32.0 20.0 12.0 10.0 11.0 12.0	<b>a</b>	0 21.0 18.0 18.0 24.0 23.0 33.0 63.0 55.0 50.0 42.0 40.0 29.0 23.0 19.0 19.0 19.0 21.0	22.0 18.0 20.0 28.0 24.0 33.0 61.0 58.0 53.0 46.0 39.0 30.0 23.0 20.0 20.0 20.0 20.0	21.0 26.0 26.0 32.0 32.0 35.0 30.0 54.0 55.0 51.0 47.0 36.0 23.0 19.0 14.0 16.0 13.0 16.0	0 17.0 27.0 25.0 30.3 36.0 33.0 51.0 54.0 47.0 45.0 35.0 29.0 21.0 20.0 16.0 13.0 15.0	1
H O	17	40.0	is time	36.0	40.0	- E	42.0	46.0	47.0	45.0	7
	36	34.0	~성- K	33.0	39.0	- N	50,0	53.0	51.0	47.0	1
:midit	15	44.0	-Gip-	56.0	49.0	C;pye	55.0	58.0	55.0	54.0	1
ilve B	14	38.0	Hve H	50.0	49-0	e di	63.0	61.0	54.0	51.0	1
Relati	13	28.0	r rel	25.0	29.0	r reis	33.0	33.0	30.0	33.0	1
Monthly Ranges of Relative Hunddity by Hour (%)	12	24.0	its level was not instrumented for relative humidity at this time	26.9	25.0	files level was not instrumented for relative humidity at this time	23.0	24.0	35.0	36.0	1
ly Res		18.0		15.0	19.0	E.Cam	24.0	28.0	32.0	30.3	1
Mont	10   11	18.0	not 155	16.0	20.₽	절-	18.0	20.0	26.0	25.0	1
	8	21.0	E 40 8	14.0	23.0	Wes	18.0	18.0	26.0	27.0	-
	98	13.0	- Tevel	12.0	13.0	. leve	21.0	22.0	21.0	17.0	1
	02	5.0	Ë	s,	0.6	Ē		18.0	15.0		1
	90	12.0		3.0	8.0		13.0	14.0	0.6	14.0	1
	90	7.0 13.0 12.0		<b>÷</b>	20.0		36.9	15.0	9.6	9.0 12.0 16.0 11.0 14.0 15.	
	94			5.0	9.0 10.0 20.0		20.02	21.0		16.0	1
	03	7.0		5.0			18.0	14.0	13.0	12.0	
	02	0.0		0.7	9.		15.0	14.0	13.0	0.	1
	01	8.0		8	11.0		19.0	19.0	13.0	15.0	
ire	Level	45.0 m	28.5m	26.5 m	3.5 m 11.0 11.0	3.0 %	4.6m 19.0 15.0 18.0 20.0 16.0 13.0 19.	2.0m 19.0 14.0 14.0 21.0 15.0 14.0	1.0m 13.0 11.0 13.0 13.0	0.5m	
Exposure	Site 1		-7			9103	ook (	Albr			1

 No monthly summary was computed for the master

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					-			
۰		e,			0	6	0	ä
9.0		6.0	6-0		*	**	ø. 0	<u> </u>
77.		7.0	13.0		36.0	17.6	9.0	74.0
10-0		<b>8</b>	0.0		14.0	16.0	8,0	12.0
34.0		6.11	9,		12.0	13.0	20.0	15.0
-0		\$	0.1		9.0	<del>و</del>	29.0 24.0 27.0 21.6 12.0 10.0	27.0 25.0 24.0 16.0 12.0 15.0 12.0 14.0 13.0
2.0		-6-	<del>-</del>		- <del>-</del> -	-0-7	0	0 1
-9-		7	- <u>0</u> -		- <u>6</u> -	<del>- 12</del>	6	-0
- % - %-	- <u>ë</u> -	30	3	- <u>e</u> -	27	92	0 27	24
25.	his t	26.	27.	- 13 - 14 - 14	8	Ŕ	7	25
19.0		24.0	27.0	7 P.	30.0	26.0	28.	27.0
29.0	ımı dir.	33.9	7	_ <del></del>	25.0	22.0	36.0	30.0
7.0	<del>قا</del> د د	0.13	3.0	ive -₩-	8.0	9.0	0.5	
-0.4	ei	9.0	0.0	- <del>[</del> ]	6.9	3.0	30.0 23.0 36.0	
-0-	ă.	-0-	8	_\$ V	2	2 0.	-0	
- 8	- and	07	23	_ <b>5</b> _	0.23	0 22		- 5
27.	- <del>1</del>	0 17.	<u> </u>	- <del>1</del>	<del>2</del>	3.39	3) 17.	22
35.	ő	36.	20.	ğ	16.	7.	16.	2
34.0	7 W.	10.0	12.0	F) V/as	13.0	33.0	15.0	1 2
6.0 13.0 14.0 15.0 17.0 22.0 24.0 17.0 29.0 19.6 25.0 26.6 22.0 17.0 14.0 10.0 11.0	This level was not instrumented for relative hundliky at this time	5.0 12.0 10.0 16.0 17.0 20.0 29.0 21.0 33.9 24.0 26.0 30.0 24.8 15.0 11.9	6.0 12.0 12.0 20.0 21.0 23.0 30.0 23.0 34.0 27.0 27.0 31.0 24.6 11.0	The level was not insrumented for relative humidity at this time	20.0	25.0	9.0 15.0 15.0 16.0 17.0 22.0	0 17 0 20 0 27 0 20 0 77 0 30 0
9.0	一百-	5.0	6.0	F	23.0 20.0 13.0 16.0 22.0 21.0 28.9 28.9 25.0 30.0 26.0 27.0 22.0 13.0 12.0 14.0 16.0 18.0	25.0 25.0 13.0 14.8 19.6 22.0 23.0 26.0 22.0 26.0 23.0 26.0 17.0 11.0 11.0 11.0 16.0 17.0 18.0	0.	-
7.0		6.0	6.9		0.5	6	7.0	- 2
۸. ف		4.0	•		4.3 7.0 18.0 21.0 21.0 24.0 25.0	18.0 19.0 21.0 21.0 20.0 24.0	7.0	
6.0		5.0	0,		- 6	- 6	0.0	20 00 00 00 00 00 00 00 00 00 00 00 00 0
7.0		3.9	•		-0-	<u>-0</u>	5.0	-
		<u>ن</u> و -			21.	0 21.	 	===
8.0		7.0	6.0		- <u>6</u> -	- 25	¥-0	
0.8		6.6	e.0		17.0		5.0	:
.46.0 m	28.5m	26.5m	3. Sm	8. 3 m	E.	2.0 3	- II	j

### SUMMARY OF METEOROLOGICAL OBSERVATIONS

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**MARCH 1967** 

HOURLY DATA

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٠ ,	XeX	77.8	77.8	77.1	930	0.80 0.75 0.75	
ummaz	Mear	71.6	73.6	2.0	• 766	0.50 0.47 0.43 0.32	
Monthly Summary	Min.	65.3	65.3	66.1	.615 .766 .930	732 0.03 0.50 0.80 744 0.13 0.41 0.75 744 0.01 0.43 0.66 744 0.01 0.32 0.75	
Mon	See Min. Mean Max.	744 65.3 71.6 77.9	744	744 66.1 72.0 77.1	744	732 0.03 0.50 0.80 744 0.13 0.41 0.75 744 0.01 0.43 0.86 744 0.01 0.32 0.75	
!	24	2.07	70.2	9.0	800	0.00	-
		4.0	70. S	6.0	802	8888	
-	21   22   23	9.02	70.7	1.1	.794	0000	
	21	8-02	6.07	e K	.730	8888	
-	20	71.0	71.1	71.6	760	8888	
	13	71.3	71.5	72.0	-740	8888	
	18	72.2 72.9 73.4 73.6 73.6 74.0 73.5 73.9 73.5 72.7 72.0 71.3 71.0 70.8 70.6 70.4 70.2	72.2 73.0 73.6 73.7 73.6 74.0 73.7 74.0 73.7 73.0 72.3 71.5 71.1 70.9 70.7 70.5 70.2 744 65.3 71.6 77.5	12.9	.810 .814 .810 .786 .760 .736 .713 .709 .708 .718 .740 .760 .780 .794 .802 .800 744	0.60 0.00 0.00 0.00 0.00 0.00 0.00 0.00	
   <b>:</b>	17	72.7	73.0	73.6	.708	90.00	
	16 17	73.5	73.7	74.3	709	0.00	_
men s	14 15	73.9	74.0	74.1	.713	0.35 0.75 0.86 0.75	
ដ  ម្គ-	14	73.5	73.7	74.1	.736	0.80 0.35 0.43 0.45	
Monthly Means <sup>2</sup> of other Elements by Hour	13	74.0	74.0	74.3	.760	0.00	
Yeans,	12	73.6	73.6	74.2	.786	0.00	
athly !	10 11 12 13	73.6	73.7	74.1	.810	0.00	
ž	01	73.4	73.6	73.9	.814	0.00 0.00 0.00	
	50	72.9	73.0	73.2	.810	0000	
	80	72.2	72.2	71.6 73.2 73.9 74.1 74.2 74.3 74.1 74.1 74.1 73.6 72.9 72.0 71.6 71.3 71.1 70.9 70.6	797		
	02	6.9.9	8.69	8.59	.780	00.00	
	90	69.3	69.3	69.8	.761	0.00	-
	05	65.4	69.4	6.69	.753	0.00	
	2	69.5	69.5	70.0	.731	0.00	
	03	69.7	69.7	70.2	.757	0.00	
	70	70.1 69.9 69.7 69.5 65.4 69.3 69.9	70.1 63.9 69.7 69.5 69.4 69.3 69.8	70.5 70.4 70.2 70.0 69.9 65.8 65.8	786 .770 .757 .751 .753 .761 .780	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
	16	70.3	70.1	70.5	.786	0.00	
<b>6</b>	Code	WB 4.0 m)	WB (2.0 m)	we (0.5 m)	â	2 5 6 2	
Exposure	Site	<u> </u>	¥	120103	.00k (	M	
<b>'</b>	<u></u>	·					

Note: Total (Mean) for Pt includes 6-hourly readings which are not included in hourly means.

3 77.4		77.9	.995	0	
يز	71.5 77.1	73.7	828	0-00	
2.	4	<u>, , , , , , , , , , , , , , , , , , , </u>	.095	00-	
<del>- 2</del>	4	<u>4</u>	ā,	#	
E		7	99		<del></del>
5	9 20	3 70	- 86 - 80	9	
5,	6.	70.	 8	6.	
70.6	70.7	70.6	88	9.0	
70.8	70.9	70.8	. 882	0.06	
71.0	71.2	71.0	198	0.0	
	1.2	-0	84.4	-00-	
-5	-6-	6.	323	-8-	
-2-	7. 7	- <del>6</del> ,	~ 2	0 .	
5 72	72	6 72	. 8	0	
. 72	5 73.	73.	 8	0.0	
73.5	73.6	7.4.	8	0.0	_
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WB - Wat bulb temperature (Of) 3P - Barometric pressure (in. of Hg minus 29.0)

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PS - Precipitation at 1.0 m in open area (in.) P1 - Precipitation at 46.0 m above canopy (in.) P2 - Precipitation under full canopy (in.)

P3 - Precipitation under drip canopy (in.) P4 - Precipitation under open canopy (in.)

<sup>2</sup> Monthly means of precipitation are computed for precipitation days. Precipitation totals are substituted for the mean in the monthly summary.

### SUMMARY OF METEOROLOGICAL OBSERVATIONS HOURLY DATA

MARCH 1957

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Monthly Summery	i			بيدجمه خاط		P40	
th! 7 Su					<del></del>	<del></del>	
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		52	5.8 6.5	6.9	5.8	.170	0.00 0.00 0.00 0.00
	-	23		6.3	4.8	.190 .160 .188 .188 .195 .195 .215 .210 .210 .200 .300 .190 .175 .170 .165 .170	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
	-	77	5.7	φ, κ,	<b>०</b>	-170	0.00
		3	4,	 W	5.3	.175	0000
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s by I	15		7.7	6.5	7.2	.210	0.64 6.00 6.00 0.00 0.00 6.00 0.00 0.00 0.00
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,2 of c	13		7.5	60	5.0	.195	0.00
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X	10		4.3 4.9 6.7 6.3 7.5 8.1 9.4 7.7		4.5 4.9	,185	0.00
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	80		7.7	9.0	6.	.190	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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\* No monthly summary
was computed for

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	9	4.6	5.0	165	ş	
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ŀ	6.3	6.3	8.	185	0.	=
	- 4.3	5.3	4,4	185	00.	
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	-6.8	5.5	6.9 6.2 5.7 5.1 6.3 7.3	.170 .165 .170 .170 .175 .185 .190	0.00 0.00 0.0 0.0 0.00 0.00 0.00 0.00	-
	WB (4.0 m)	V/B (2.0 m)	wa (0.5 ສ)	ń.	S.	

WB - Wet bulb temperature (9m) BP - Barometric pressure (in. of Hg millus 25.0)

PS - Precipitation et 1.0 m in open area (in.) P1 - Precipitation at 46.0 m above canopy (in.) P2 - Precipitation under fulls canopy (in.) THE PERSON OF TH

P3 - Precipitation under drip canopy (in.) P4 - Precipitation under open canopy (in.)

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2. — Swenthly ranges of grecipitation are computed for precipitation days.

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# SUMMARY OF METEOROLOGICAL OBSERVATIONS HOURLY DATA

MARCH 1967

	Monthly Summary	22   23   24   38.0   Min. Mests Mex.	5.0 6.0 6.0 726 0.0 0.0 18.0		2.0 3.0 2.0 726 0.0 3.0 11.0			0.0 1.0 1.6 726 0.0 1.0 5.0			
		20   21	0.9 6.0		2.0 2.9		<b></b>	0.0			
			8.0 7.0 6.9		2.0	<u>-</u>	<del></del>	0 0.3	<del></del>	<del></del> -	
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-	Ped by	35   36	- ဝါ -	ă P	- vj.	7 P	<u></u>		¥ .	P P	<u> </u>
	Monthly Means of Wind Speed by Hour (miles / fr.)	14	8.9 16.0 11.0 19.6 10.0 10.0 10.6 10.6 10.0	This level was not instrumented for wind speed at this time	5.0 4.0	This level was not instrumented for wind speed at this time	This level was not instrumented for wind speed at this time	2.0 1.0 1.0 1.3	This level was not instrumented for wind speed at this time	This level was not instrumented for wind speed at this time	The level was not instrumented for wind speed at this time
-	feans of Win (miles / fr.)	13	30.0	- K. 26	5.0	- <del> </del>	Fe for	2,0	- <del>20</del>	- <del>2</del>	<u> </u>
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		0 80	8 0-9	This	3.0	This	This le	1.0	Taris Je	This le	Thus le
		9,	6.0		9-0		<del></del>	1.0	-	<b></b>	
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		02 0	6.0		2.0	<del>- d.</del>		0.0	<u>,                                     </u>	, <del></del>	
		10	6.0		٠. ن	<u> </u>		0.7			
		E. Vel	46.0m	28.5m	26.5 m	3.S	8.0m	4.0 m	2.0m	1.0m	0.5B
	Exposure	3	<u> </u>	- 14	- 74	- 61					

0.0 00.0 24.0		0.24.0	7.0 31.0		6.0 18.0	4.0 18.0		
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	- <del> </del>		_			7**		<del></del>
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o,		9.0			5.0	0.		
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3.4.C	e time	14.0	35.0	tt t	8.0 10.0 11.0 10.6 10.0 11.0 10.0 11.0 10.6	9.6	- <b>3</b>	-3
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13.6	of with	2.5	13.0	¥ 	11.0	8.0 9.0 9.0	ar S	- <del>8</del>
)   15,0	d part	7.	14.6	rited 5	10.6	9,	- <del>1</del>	
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0 14.	- <del>1</del>	0 14.	0 13.	- <del>1</del>	0 37	7.0 8.0	- <u>F</u> -	- <u>\$</u>
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-6-	This level was not instrumented for wind speed at this time	£.	-6-	This level was not instrumented for wind speed at this time	5,0	3.0	This level was not instrumented for what speed at this	This level was not instrumented for wind speed at this time
-0-		5.0	2.0		3.0	2.6		
0.9		5.0	9.0		0,0	6)		
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7.0		6.0	6,		9.6	2.0		
7.0		6.0	3.0		4.0	2.0	***************************************	
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46.0m	28.5	25.5	<u></u>	95 95	4	۲۰;	~i	8

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# SUMMARY OF METEOROLOGICAL OBSERVATIONS

HOURLY DATA

Monthly Summary .	-			<b>2010</b> Parada		******	. د د د د د د د د د د د د د د د د د د د				-
Month			******							·	-
	2	6.0		5,0			2.0				
	23	8.0		7.0			2.6				_
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	23	9.0		0.0			1.0 2.0				_
	20	7.0	017 <b>-</b>	5.0			6.				_
	19	8.0		5.0			2.0 3.0				_
	18	13.0		10.0			2.0				_
à	3.7	9.98		10.0		-ij-	3.0	- #-	9	#	
Monthly Ranges of Whad Speed by Hour (miles/hr.)	126	12.0 12.0 13.0 10.0 13.0 15.0 14.0 17.0 15.0 16.0 12.0	This level was not instrumented for wind speed at this time	8.0 9.0 10.0 11.0 110.0 110.0	This level was rot instrumented for wind spend at this time	This level was not instrumented for wind speed at this	2.0	This level was not instrumented for wind speed at this time	This level was not instrumented for wind speed at this	This level was not instrumented for windspeed at this	_
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Wand /Hr.)	13   14   15	14.0	Part -	9.6	Total Total	PO P	4.0	Pulse	w.fnd	and the	
ges of Wh (miles/hr.)		15.0	- <u>28</u>		og p	S P	3.0	og to	- <del>[6</del> 7	of for	
ily Res	122	13.0	- E-	9,6	-Lane	- j	3.6 3.0 5.0	i camera	- Trumen	-true:	-
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Exposure	Level	45.0m	28.5m	26.5=	13.5	6.03	4.0 H	2.0.3	1.0	0.52	

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11.0		9.0	10.0		2,0	7.0		
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13.0 13.0 16.0 14.0 12.0 14.0 18.0 20.6 14.0 15.6 14.0 12.0 10.0 10.0 11.0 8.0 13.0		12.0 13.0 14.0 13.0 12.0 12.0 12.6 18.0 18.0 13.0 15.0 13.0 12.0 8.0 7.0 9.0 7.0 11.0			ø,	0.4	~	-
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4.0		13.0	23.0		0.01	13.0	- <del>1</del>	- 4
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9.0 9.0	wind	90	0.02	- io		15.0	च्य	Pale
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- <mark>-</mark> -	-12	3.0	5.0	- #	2.0	9.0	- 13 -	-13
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3.0	4	2.0	13.0 16.0 23.0 15.0 25.0 25.0 20.0 31.0 23.0 25.0 15.6 13.0	- N	11.0 10.0 11.0 12.0 12.0 13.0 15.0 16.0 10.0 11.0 11.0 9.0	9.0 11.6 11.0 13.0 13.0 13.0 15.0 15.0 13.0 17.0 12.0	1	
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ij		*	**		7.0	•		
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0	29.5 m	ě.	S	% ن از	4.0m	2.05	1.0 m	0.5

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ALBROOK (Forest sine) MARCH 1967

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\* Note: Due to rounding, percentage totals 20 not equal 100%,

### ALBROOK (Forest site) MARCE 1967

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Relative Frequencies	88		3,3	9.9		6.6				3.3		3.3	26.6	9.9	3,3	10.0		43.2	edasi
8	07	6.6	3.3	3.3						3.3			3,3	9.9	10.0	9.9	3.3	53.1	not
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		24	61.3	9.7			3.2									3.2	6.4	16.1	
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	ive Fre	30	48.4	3.2 1	9.7 11				3.2							3.2	12.9	19.4	
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		90	41.9	2.9	_	3.2	3.2	3.2	3.2				3.2				6.4	22.6	<b></b> -
		92	41.9	6.4	3.2		3.2					-			3.2	3.2	6.4	32.2	
		04	54.8	6.4											3.2		9.7	25.8	
	,	63	54.8	6.4											3.2	6.4	9.7	19.61	
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\* Note: Due to rounding, percentage totals do not equal 100%.

CHIVA CHIVA (Open site) MARCH 1967

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### SUMMARY OF NON HOURLY DATA

### **MARCH 1967**

ği <b>ye</b>	Element, Units and Exposure	Description	Number of Obs.	Minimum Value	Mean or Total Value	Maximum Value
	WBGT Index <sup>1</sup> (at 1.5 meters)	Index value Dry bulk temp. Wet bulb temp. Black bulb temp.	434 434 434 434	65.6 66.3 65.4 66.6	76.0 80.8 73.5 82.2	83.2 91.0 81.0 95.5
	Evaporation <sup>3</sup> (in, at 4 levels)	-Piche (46.0 m) Piche (26.5 m) Piche (13.5 m) Piche ( 0.5 m)	31 31 31 31	0.451 0.281 0.110 0.061	22.8694 14.3244 7.4334 5.8574	0.970 0.580 0.311 0.281
Albrook (Forest site)	Precipitation from Raingauge Network <sup>2</sup> (in. at 1.0 meters)	Gauge # 1 Gauge # 2 Gauge # 3 Gauge # 4 Gauge # 5 Gauge # 6 Gauge # 7 Gauge # 8	1 2 2 2 2 2 2 1	1.42 1.39 0.02 0.01 0.01 0.01 0.02 1.56	1.42* 1.39* 1.68* 1.63* 1.48* 1.94* 1.46*	1.42 1.39 1.66 1.62 1.47 1.83 1.44
	Stem Flow <sup>2</sup> (in. at 2.0 meters)	Small tree Medium tree Large tree	1 1 1	36.62 3.80 2.18	36.62* 3.80* 2.16*	36.62 3.80 2,18
(91	WBGT Index <sup>1</sup> (at 1.5 meters)	Index value Dry bulb temp. Wet bulb temp, Black bulb temp,	434 434 434 434	63.8 64.0 64.0 63.0	78.8 84.0 73.7 94.0	88.5 95.5 78.0 115.0
Chiva Chiva (Open site)	Evaporation <sup>3</sup> (in. at 0.5 meters)	Piche Pen	31 31	0.390 0.048	19.010* 8.591*	0.769 0.363
Chiva	Minimum Grass temp <sup>3</sup> ( <sup>O</sup> F at grass tips)	None	26	D <b>T</b> F.	65.5	71.5

<sup>1 -</sup> Hourly observations between 0600 and 1900 hours inclusive 2 - Six hourly observations 3 - Daily observations Note: DTF, indicates date of doubtful validity.

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This report contains detailed microclimatic data for March 1967 from specific sites in the Panama Canal Zone and vicinity. The data are presented in tabular form, summarized for hourly and/or daily observations from surface to 46-meter levels. Elements listed are: temperature, pressure, precipitation, wind speed and direction, relative humidity, and evaporation.

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